

# EconoScan II™ Barcode Scanner

Quick Start Manual



Check Version

***IDTECH***®  
Value through Innovation

## **FCC WARNING STATEMENT**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

## **FCC COMPLIANCE STATEMENT**

This device complies with Part 15 of the FCC Rules. Operation of this device is subject to the following conditions: this device may not cause harmful interference and this device must accept any interference received, including interference that may cause undesired operation.

## **CANADIAN DOC STATEMENT**

This digital apparatus does not exceed the Class B limits for radio noise for digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications. Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

## **CE STANDARDS**

Testing for compliance to CE requirements was performed by an independent laboratory. The unit under test was found compliant to class B limits of part 15 of the FCC rules.

## LIMITED WARRANTY

ID TECH warrants to the original purchaser for a period of 36 months from the date of invoice that this product is in good working order and free from defects in material and workmanship under normal use and service. ID TECH's obligation under this warranty is limited to, at its option, replacing, repairing, or giving credit for any product which has, within the warranty period, been returned to the factory of origin, transportation charges and insurance prepaid, and which is, after examination, disclosed to ID TECH's satisfaction to be thus defective. The expense of removal and reinstallation of any item or items of equipment is not included in this warranty. No person, firm, or corporation is authorized to assume for ID TECH any other liabilities in connection with the sales of any product. In no event shall ID TECH be liable for any special, incidental or consequential damages to purchaser or any third party caused by any defective item of equipment, whether that defect is warranted against or not. Purchaser's sole and exclusive remedy for defective equipment, which does not conform to the requirements of sales, is to have such equipment replaced or repaired by ID TECH. For limited warranty service during the warranty period, please contact ID TECH to obtain a Return Material Authorization (RMA) number & instructions for returning the product.

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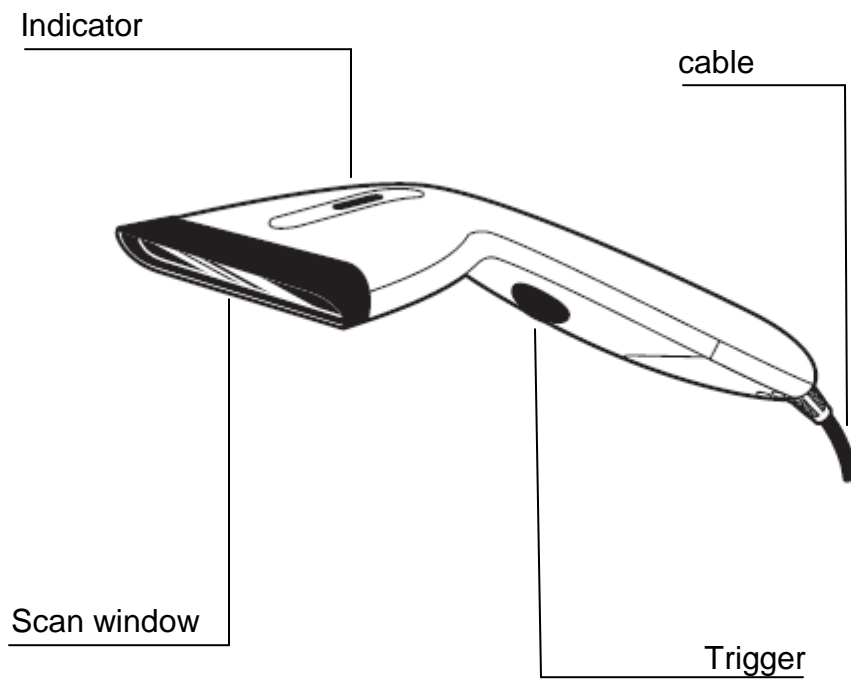
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# Section 1

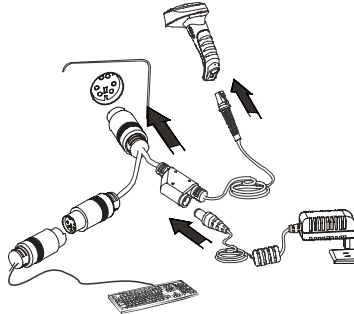
## INTRODUCTION



## Section 2

# INSTALLATION AND OPERATION

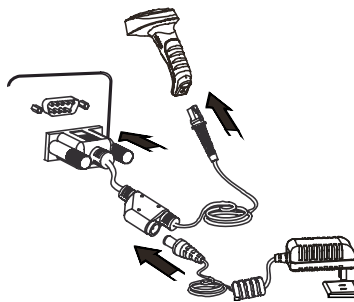
### Installing the Keyboard Wedge Reader



To install a keyboard wedge reader, follow the steps below:

1. Turn off the power of the PC or Terminal.
2. Unplug keyboard from the PC or Terminal.
3. Make sure you have the Y cable with appropriate Connector Type for your PC or Terminal.
4. Connect Scanner to your PC or Terminal.
5. Connect the keyboard connector to the female connector of the Y cable.
6. Turn on the power of PC or Terminal.

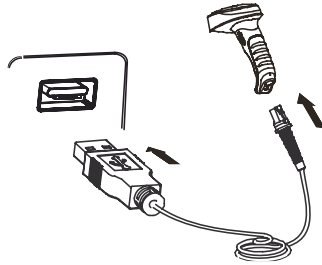
### Installing the RS232 Reader



To install a RS232 reader, follow the steps below:

1. Turn off the power of the PC or Terminal.
2. Make sure the connector type from RS232 to the PC or Terminal is correct.
3. Plug the scanner reader to PC's COM Port.
4. Plug AC Adaptor connector into connector of the reader.
5. Turn on the power of PC or Terminal.
6. Setup the Interface of the reader to RS232 mode by scanning the barcode in the interface selection.

## Installing the USB Reader



- 1、 Insert USB Cable (RJ45 male head) to the scanner (reader)
- 2、 Insert USB Cable (USB male head) into Host's (female) USB connector

Pin Assignments			
<b>1. Keyboard Output</b>			
<b>DIN 5 MALE</b>		<b>DIN 5 FEMALE</b>	
Pin No.	Function	Pin No.	Function
1	HOST CLK	1	KB CLK
2	HOSTDATA	2	KB DATA
4	GND	4	GND
5	Vcc(+5V)	5	Vcc(+5V)
DIN 5 Male Pin Assignment		DIN 5 Female Pin Assignment	
<b>2. RS-232 Output</b>			
<b>DB 9 Female</b>			
	Pin No.	Function	
	2	TXD	
	3	RXD	
	5	GND	
	7	CTS	
	8	RTS	
		Power Lead Vcc +5V	
	DB 9 Female Pin Assignment		Male DC Jack
<b>3. USB Emulation Output</b>			
<b>A type USB connector</b>			
	Pin No.	Function	
	1	Vcc (+5V)	
	2	D-	
	3	D+	
	4	GND	
	USB Pin Assignment		
<b>MiniDIN 6 Male and Female Assignments</b>			
<b>MiniDIN 6 MALE</b>		<b>MiniDIN 6 FEMALE</b>	
Pin No.	Function	Pin No.	Function
1	HOSTDATA	1	KB DATA
3	GND	3	GND
4	Vcc	4	Vcc
5	HOST CLK	5	KB CLK

## Interface setting and factory default

Scan as following order to set up the associated interface:

- 1、 Read the “Configuration ON” barcode to start the setting mode.
- 2、 Scan the associated interface from the right column.
- 3、 Finish the setting mode by scanning the “Configuration OFF”.



**Configuration ON**



**Configuration OFF**



**USB**



**PS/2**



**RS232**



**Default**

## Section 3

# TROUBLESHOOTING

Troubleshooting assistance for common problems:

- **No Beep**

Possible Reason: The interface cable has come off.

Solution: Re-plug the cable.

- **The Scanner does not output data.**

Possible Reason: Set-up error.

Solution: Re-set interface from the manual.

- **The Scanner does not function with the computer.**

Possible Reason: Set-up error.

Solution: Re-set the barcode set-up.

- **Crash with USB interface.**

Possible Reason: Did not set up the USB interface.

Solution: Set-up the USB interface and/or dis-connect & re-connect.

- **No output data with RS232.**

Possible Reason: Incorrect Interface setting or communication parameter doesn't match the host AP software side.

Solution: Re-configure the interface type and re-configure the reader's RS232 communication parameters.



## Section 4

# SPECIFICATION

Specification		
Operational	Light Source	Red LED (660nm)
	Visual Indicators	Green = Good Read
	Audio Indicators	Adjustable
	Host System Interface	USB, RS232, Keyboard Wedge
	Case Material	ABS
Mechanical	Dimensions (LXWXH)	155mm X 78 mm X 16 mm
	Weight	85g without cable
Electrical	Input Voltage	5VDC +/- 5%
	Operation current	100 - 130mA
	Stand-by current	20 - 30mA
	Power on current	125mA
Environmental	Operating Temperature	0°C to 50°C (32°F to 105°F)
	Storage Temperature	-26°C to 60°C (-15°F to 106°F)
	Humidity	10% to 80% relative humidity
	Drop	Designed to withstand 1.2m drops
Optical	Optical Sensor	2500 Pixel CCD sensor
	Scan rate	200 scans/sec.
	Resolution	0.1mm (4mil)
	PCS value	45% or more
	Scan Angle	Front: 43°; rear ; Left & right
	Ambient Light Rejection	10000 Lux max. (Fluorescence)
		5000 Lux max. (Sunlight)
	Depth of Field	0-240 mm
Others	Warranty	1 year
	Safety Approvals	FCC Class B, CE, EMC, U/L, CSA, RoHS
	IP	IP 30
Decode Capability	Code 39, Full ASCII Code 39, Code 32, Code 128, Code 93, Code 11, Codabar/NW 7, All UPC/EAN/JAN Code (EAN-13, EAN-8, UPC-A, UPC-E, EAN-128), Interleave 2 of 5, STD 2 of 5, Industrial 2 of 5, Matrix 2 of 5, Chinese Postage Code, MSI/PLESSY, Italian Pharmacy Code (RSS, GS1 available 2010)	

**Section 5**  
**READING MODE SETTINGS**



Trigger Mode



**Configuration ON**



Auto Power off Mode(Default)



**Configuration OFF**

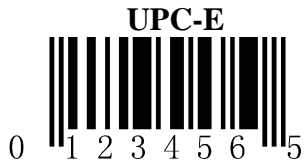


Continuous/Trigger OFF Mode



Test Mode

## Section 6 TESTING CODES



**Full User's Manual is available for download on  
[www.idtechproducts.com](http://www.idtechproducts.com)**

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